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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/996,720	11/30/2001	Andrew M. Spencer	10014185-1	4492

7590 01/21/2005

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EXAMINER

CHACE, CHRISTIAN

ART UNIT PAPER NUMBER

2187

DATE MAILED: 01/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/996,720

Applicant(s)

SPENCER ET AL.

Examiner

Christian P. Chace

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 and 20-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 and 20-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 November 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Appeal Brief

This Office action has been issued in response to Appeal Brief filed 18 November 2004. Claims 1-18 and 20-33 are pending. After very careful consideration of the instant application, and in the interest of the most accurate examination of same, examiner has WITHDRAWN THE FINALITY of the previous office action, in light of new grounds for rejection of the claims. This action is NOT final.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, **all of the limitations of claims 2-16, 18, and 20-33 must be shown** or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-13 and 16-33 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. With respect to independent claims 1, 16, 17, 23, 28-30 and 32, the claims do not require use of a computer system,

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and, therefore, the methods and apparatuses implementing those methods are not patentable.

With respect to independent claim 1, the claim recites, "A method for storing memory card usage information ON a memory card, comprising the steps of:

Collecting information about usage of the memory card;

Recording the information about usage of the memory card in an area of the memory card; and

Accessing the information about usage of the memory card from the memory card."

Examiner notes that a floppy disk with a label on it, on which is written file names, and is then read by someone else who is handed the floppy disk, actually anticipates the claim language. Writing file names on a floppy disk is non-statutory subject matter. Claims 2-13 depend upon the instant claim and are rejected for at least the reasons set forth supra with respect to same.

Independent claims 16, 28-30 and 32 are rejected for the reasons exemplified with respect to claim 1 supra. (i.e., ON a memory card). Accordingly, claims 31 and 33 depend upon these claims, and are rejected for at least the reasons set forth supra with respect to same.

With respect to independent claim 17, the claim recites, "A method, comprising:

Collecting information about usage of a portable memory card in an electronic device; and

Recording the information about usage of the memory card ON the memory card itself.”

The instant claim is even more broad than the example of claim 1, and is, therefore, rejected using the same line of reasoning. Claims 18-22 depend upon the instant claim and are rejected for at least the reasons set forth supra with respect to same. Independent claim 23 and claims 24-27 which depend upon it, are also rejected for the reasons discussed supra with respect to claims 1 and 17. They are simply not in the technical arts.

Claim 7 is rejected under 35 U.S.C. 101 because the disclosed invention is inoperative and therefore lacks utility. Recording information about usage in a “non-user accessible area of memory” is impossible. A memory MUST be “accessible” if information is to be recorded on it, and anyone or anything doing said recording is a “user.”

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-13 and 16-33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to independent claims 1, 16, 17, 23, 28-30, and 32, as discussed supra with respect to 35 USC 101 rejections of same, the scope of the claims is not

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clear as it includes non-statutory subject matter and, therefore, renders infinite possibilities of interpretation of those claims.

A Note on Claim Interpretation

MPEP 2111 [R-1] Claim Interpretation; Broadest Reasonable Interpretation

CLAIMS MUST BE GIVEN THEIR BROADEST REASONABLE

INTERPRETATION

During patent examination, the pending claims must be "given *>their< broadest reasonable interpretation consistent with the specification." > *In re Hyatt*, 211 F.3d 1367, 1372, 54 USPQ2d 1664, 1667 (Fed. Cir. 2000).< Applicant always has the opportunity to amend the claims during prosecution, and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. *In re Prater*, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA 1969) (Claim 9 was directed to a process of analyzing data generated by mass spectrographic analysis of a gas. The process comprised selecting the data to be analyzed by subjecting the data to a mathematical manipulation. The examiner made rejections under 35 U.S.C. 101 and 102. In the 35 U.S.C. 102 rejection, the examiner explained that the claim was anticipated by a mental process augmented by pencil and paper markings. The court agreed that the claim was not limited to using a machine to carry out the process since the claim did not explicitly set forth the machine. The court explained that "reading a claim in light of the specification, to thereby interpret limitations explicitly recited in the claim, is a quite different thing from reading limitations of the specification into a claim,' to thereby narrow the scope of the claim by implicitly

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adding disclosed limitations which have no express basis in the claim." The court found that applicant was advocating the latter, i.e., the impermissible importation of subject matter from the specification into the claim.). See also *In re Morris*, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir. 1997) (The court held that the PTO is not required, in the course of prosecution, to interpret claims in applications in the same manner as a court would interpret claims in an infringement suit. Rather, the "PTO applies to verbiage of the proposed claims the broadest reasonable meaning of the words in their ordinary usage as they would be understood by one of ordinary skill in the art, taking into account whatever enlightenment by way of definitions or otherwise that may be afforded by the written description contained in applicant's specification.").

The broadest reasonable interpretation of the claims must also be consistent with the interpretation that those skilled in the art would reach. *In re Cortright*, 165 F.3d 1353, 1359, 49 USPQ2d 1464, 1468 (Fed. Cir. 1999) (The Board's construction of the claim limitation "restore hair growth" as requiring the hair to be returned to its original state was held to be an ** >incorrect< interpretation of the limitation. The court held that, consistent with applicant's disclosure and the disclosure of three patents from analogous arts using the same phrase to require only some increase in hair growth, one of ordinary skill would construe "restore hair growth" to mean that the claimed method increases the amount of hair grown on the scalp, but does not necessarily produce a full head of hair.).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-13 and 16-33 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by a floppy disk being acted upon by human action and mental process.

As noted supra with respect to 35 USC 101 rejections, the methods and apparatus for implementing the methods are anticipated by simply having a floppy disk, for example, the floppy disk having a label on it, which can be interpreted as a "window" or a "screen," finding out who has had possession of that floppy disk, writing that information on the label, and then reading the information from the label.

In the interest of efficient prosecution and in anticipation of the 35 USC 101 rejection being overcome by simple amendment to the claims, examiner will not explicitly type out all of the claims, only to anticipate them by human action with respect to the floppy disk.

Claims 1-6, 8-10, 12-17, 23, 26, 28, 30, and 32 are rejected under 35

U.S.C. 102(b) as being anticipated by Bruce et al (US Patent 6,000,006).

With respect to independent claims 1, as well as 16 and 17, a method and apparatus for storing memory card usage information in a memory card is disclosed in the abstract. A memory card is disclosed, for example, in column 6, lines 40-41.

Collecting information about usage of the memory card and recording information about usage of the memory card in an area of the memory card is disclosed in the abstract.

Accessing the information about usage of the memory card from the memory card is disclosed in the abstract as well as in figure 6, which shows an arrow from the write counters, which shows them being "accessed." The write counters are stored in the memory card as discussed in column 6, line 45. (The counters are stored in the re-map table, which is stored in the flash card.)

With respect to claim 2, "monitoring" write events is disclosed in the abstract. "monitoring" is defined as keeping watch over. Inherently, by counting the number of writes, the system is keeping watch over those write events. Monitoring read events is disclosed in column 7, line 35. Monitoring power-on events is inherent in light of the definition of monitoring discussed herein – power must be applied for the system to work. If power is applied, it is monitored.

With respect to claim 3, changing a count associated with an event descriptor when an event occurs is disclosed in the abstract as a write count.

With respect to claim 4, storing a “value parameter” associated with said event descriptor when said event occurs is disclosed in the abstract as a write count.

With respect to claim 5, changing a running total associated with said event descriptor when said event occurs is disclosed in column 7, lines 10-11 and in figure 6, #46 as a total write count.

With respect to claim 6, recording information about usage in a dedicated area in said memory card is disclosed in column 6, line 47 as well as in figure 6, #46.

With respect to claim 8, changing a count associated with an event description when the event occurs is disclosed as incrementing the counter in column 3, lines 5-15. Displaying the count is disclosed in figure 6, #46. The count is “displayed” to the wear-level controller, e.g.

With respect to claim 9, a plurality of event descriptors are disclosed in figure 6, #46 and #48, e.g. Displaying them is disclosed in figure 6, #46 and #48, as discussed supra with respect to claim 8. Each of the plurality of event descriptors being “selectable” is disclosed in column 3, lines 17-23, where they are “selected” by the logical address, e.g. Additional “usage information” being displayed upon selection associated with the respective event descriptor is disclosed in figure 6, #52 – the valid bit.

With respect to claim 10, the displaying step being performed at a host is disclosed in column 6, lines 12-18, where the flash memory in which it is stored is part of the host system.

With respect to claim 12, creating write and read commands allowing the host to store the information about usage and reading that information is inherent in the system of Bruce et al. A computer must be told what to do – see figures 4 and 6, e.g.

With respect to claim 13, changing a count associated with an event descriptor when the event occurs, comparing the count to a threshold, and, if the threshold is equaled or exceeded, then causing a message to be sent is disclosed in column 13, lines 20-25.

With respect to independent claim 14, a data structure in a memory card, comprising, computer readable storage containing at least one event descriptor about usage of the memory card, and for each event descriptor a count representing the number of occurrences of that event is disclosed in the abstract as the write counts. Claims rejected supra discuss the write counts being stored on the memory card.

With respect to claim 15, for each of a plurality of event descriptors an amount of memory used by an aggregation of events corresponding to a respective each of the event descriptors is disclosed in figure 6, #44, where the amount of memory is the physical block being associated with the address in the mapping table shown.

With respect to independent claims 23 and 28, claims 1 and 8, as addressed supra, anticipate the claim limitations as discussed supra.

With respect to claim 26, monitoring an amount of memory used in the memory card, and monitoring an amount of memory remaining free on the memory card is disclosed as keeping track of whether given sections of memory have been wear-

leveled or not by counting the total number of writes ever written to that memory area, as discussed in column 10, lines 30-32.

With respect to claims 30 and 32, the rejection of claim 1 *supra* discusses the limitations not addressed herein (collecting and recording and the components therefore.)

Accessing the information about usage of the memory card from the memory card, wherein the information about usage of the memory card comprises the number of times data was "corrected" by the memory card is disclosed in column 5, lines 5-12, where data is corrected or kept correct, by wear-leveling based on the total number of writes to a particular section. This effectively keeps track of the number of times data was corrected by preventing it from having to be corrected, i.e., the number of times data is corrected is zero. Examiner notes that the claim limitations are listed in the alternative (at least one of A and B), and, therefore, only requires one of the limitations of this section of the claim to be met in order to anticipate this section of the claim.

Claims 1-17 and 20-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Shimizu et al (US Patent Application Publication #2002/0107832).

Examiner notes that all claims have been interpreted given their broadest reasonable interpretation, as 35 USC 112, 6th paragraph has not been invoked by an explicit recitation of "means-plus-function" limitations. In other words, as in independent claim 16, for example, "a component for" is recited. This phraseology does not invoke 35 USC 112 6th paragraph interpretation as it is not explicitly "a means for."

With respect to independent claims 1 and 16, a method and system for storing memory card usage information on a memory card is disclosed in the title as an apparatus and method for outputting control information. Examiner interprets “information about usage of the memory card” to be any data that has to do with how the memory card is used. A memory card is disclosed in paragraph 59 as control information storage unit, #726 in figure 1.

Collecting information about the usage of the memory card is disclosed in paragraphs 59 and 61 as generating use condition information and billing information, as well as advertisement usage information (which is based on the content selected and stored on the memory card – see paragraph 65, for example), which is also stored in control information storage unit 726, as discussed in paragraph 67.

Recording the information about usage of the memory card in an area of the memory card is disclosed in paragraph 61 as the generated use condition information and the billing information being recorded in the control information storage unit 726.

Accessing the information about usage is disclosed in paragraph 61 as, “using the generated use condition information.” If the information is “used,” it is inherently “accessed.”

Examiner notes that claim 16 recites the same limitations as claim 1, except it adds, “a component for...” before each limitation. Examiner notes that as Shimizu et al disclose the method as discussed supra, the “components for” performing that method are inherently disclosed as well.

With respect to claim 2, figure 6 is an example of the generated use condition information, which discloses “number of times reproduction is possible,” (“monitoring” write events), “whether copying is allowed,” (“monitoring” read events – the data must inherently be read in order to be copied. In other words, if it is not read, it cannot be rewritten as the copy) and “monitoring” power-on events, which is inherent in that if the card collects usage information about the card in an area of the card, as discussed supra with respect to claim 1, then the card must, inherently, be powered on for those transactions, and by “monitoring” the transactions, power-on events are also inherently “monitored.” “Monitoring” is interpreted by examiner as the system “being aware” of the transaction. By performing the transaction, the system must, inherently, be aware of it.

With respect to claim 3, the collecting step comprising changing a count associated with an event descriptor when the event occurs is disclosed in figure 9, #S1205. Advertising usage information is “information about the usage of the memory card,” as discussed supra with respect to claim 1. Paragraph 98 discloses changing a count as, “updat[ing] the number of accesses to the web (recorded in advertisement usage information).” Access to the web is “the event,” and the number of times the web is accessed is the “event descriptor” that counts the number of times the event occurs.

With respect to claim 4, the collecting step further comprising storing a “value parameter” associated with said event descriptor when the event occurs is disclosed in figure 4, and discussed supra, as the “number of times (the website is accessed).”

With respect to claim 5, the collecting step comprising changing a running total, or count, associated with said event descriptor when the event occurs is disclosed in paragraph 98 as discussed supra with respect to claim 3.

With respect to claim 6, recording the information about usage in a dedicated area in said memory card is disclosed in figure 4, for example. Also, this is inherent in that all data stored in a computer memory is in a “dedicated” area – that area is dedicated to whatever data is stored there.

With respect to claim 7, recording the information about usage in a “non-user accessible area” of memory is disclosed in figure 4, and further discussed in paragraph 61 as requiring input by a clerk. As applicants have not discussed which memory might contain a “non-user accessible area,” examiner interprets the memory accessible by the clerk, a “non-user,” as opposed to the owner of the memory card, as that memory. Alternatively, it could be interpreted as the clerk’s memory itself. Either interpretation is anticipated by applicants’ claim language as it stands instantly.

With respect to claim 8, changing a count associated with an event description when the event occurs, and wherein the accessing step comprises displaying the count is disclosed in figure 4, and the “displaying” is discussed in paragraph 62 into 63. Paragraph 62 discusses the use condition information, explained supra with respect to claim 1, for example. Paragraph 63 discusses the fact that the use condition information contains more particular information, which *shows a user* instruction on how many times the rented digital content may be reproduced, for example. If instructions are being “shown” to a user, they must be “displayed” – this is inherent.

With respect to claim 9, a plurality of event descriptors is disclosed in figure 4. As discussed supra with respect to claim 3, the advertisement usage information contains an "event descriptor," of which "No. times web site is accessed," was specifically mentioned. However, figure 4 discloses a plurality of "event descriptors," such as, "number of times 2nd digital content is reproduced." Displaying these event descriptors is shown in figure 4, as well, and discussed in paragraph 57 as being provided by advertisement sponsors. Similar to examiner's interpretation with respect to claim 8, in order to "provide" this information, it would have to be "displayed." As the descriptor values are provided by the sponsors, they are "selectable." Upon selection, paragraph 57 goes on to refer to a table, shown in figure 5, which is expressed in figure 4 as a "second [content] identifier."

With respect to claim 10, the "displaying" step being performed at a "host" is disclosed in paragraph 61, as, "by a clerk." Also, as "displaying" is discussed supra with respect to claim 9, by the advertisers.

With respect to claim 11, displaying real-time information about usage in a window on a screen at a host is disclosed in paragraphs 61 and 63 as well, as being input by a clerk. In other words, the clerk/user has to see what he/she is entering or being shown, as disclosed supra with respect to claims 8 and 9. Also, paragraph 89 discusses usage of the monitor unit 753 from figure 1, and how it displays information based on the second digital content.

With respect to claim 12, creating "write and read commands" allowing the host to store the information about usage and read that information is disclosed in paragraph

61. Write and read commands are inherent in write and read operations such as “record,” “input,” and “display” or “show”.

With respect to claim 13, changing a count associated with an event descriptor when the event occurs is disclosed as discussed supra with respect to claim 3.

Comparing the count to a threshold, and if the threshold is equaled or exceeded, then causing a message to be sent is disclosed in paragraph 10, with the “message to be sent” being “specifying a digital content identifier.” The threshold is the “certain number or more of second identifiers.”

With respect to independent claim 14, computer readable storage is disclosed in figure 1, #726.

The storage containing at least one event descriptor about the usage of the memory card is disclosed in figure 4 as advertisement usage information.

A count representing the number of occurrences of that event is disclosed in figure 9, #S1205. Advertising usage information is “information about the usage of the memory card,” as discussed supra with respect to claim 1. Paragraph 98 discloses changing a count as, “updat[ing] the number of accesses to the web (recorded in advertisement usage information).” Access to the web is “the event,” and the number of times the web is accessed is the “event descriptor” that counts the number of times the event occurs.

With respect to claim 15, an amount of memory being used by an aggregation of events corresponding to respective each of the event descriptors (see supra) is inherent – if data of any kind is to be saved, there must be a place to save it. Also, figure 5

shows a table that relates to the 2nd content identifier of figure 4, as also discussed supra with respect to claim 9. In other words, figure 5 is a table that represents an amount of memory being used by an aggregation of the events corresponding to the respective content identifier (2nd content identifier).

With respect to independent claim 17, collecting information about usage of a portable memory card in an electronic device is disclosed in paragraph 61 as generating use condition information and billing information, as well as advertisement usage information (which is based on the content selected and stored on the memory card – see paragraph 65, for example), which is also stored in control information storage unit 726, as discussed in paragraph 67.

Recording the information about usage of the memory card in an area of the memory card is disclosed in paragraph 61 as the generated use condition information and the billing information being recorded in the control information storage unit 726.

With respect to claim 20, collecting information further comprising counting a number of times an image file was written to the memory card is disclosed in paragraph 2, as reproducing image data, which, as shown in figure 4, is counted as the number of times the digital content may be reproduced (whether that digital content is image data or otherwise, it is still digital, and will be counted).

With respect to claim 21, the collecting information further comprising counting a number of times music files (audio data) were written to the memory card is disclosed in paragraph 2, as reproducing audio data, which, as shown in figure 4, is counted as the

number of times the digital content may be reproduced (whether that digital content is audio data or otherwise, it is still digital, and will be counted).

With respect to claim 22, the collecting information further comprising tracking a number of times the memory card is formatted is disclosed in paragraph 61, as the user information is input by the clerk when the user first becomes a member of the rental store. The rental price (billing information) is calculated using the generated use condition information. Therefore, if the "format" changes, i.e., a different order is placed, so does the billing information, which is inherently "tracked," as it must be in order to "bill" the user.

Claims 23-26 and 28-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Himoto et al (US Patent #6,478,679).

With respect to independent claim 23, examiner must first point out that "storing the usage of the memory card on the memory card" has been interpreted as storing the usage of the memory card *in* the memory of the card. Also, "usage of the memory card" is very broad, and may comprise any number of things, for example, as discussed supra with respect to claim 1. In this case, examiner has interpreted "usage of the memory card" as the type of games stored and the respective scores, for example, as shown in figure 7, 8A, and 8B, as they are activities stored on the card that are used by the card.

These figures also show a portable memory card, as discussed in the abstract.

As storing the usage activities is shown as discussed supra, inherently those activities are "monitored" if they are stored. For example, the score is recorded with the game title. Therefore, the game is "monitored" by keeping track of the score.

Displaying the usage activity on the memory card is shown in figure 3 as a LCD. This is also discussed in the abstract, for example.

With respect to claims 24-25, displaying the usage IN a window on the memory card or on a screen on the memory card are disclosed, as discussed supra, in figures 7 and 8, which show LCD 14 of figure 3, discussed supra with respect to claim 23.

With respect to claim 26, monitoring the amount of remaining free space on the memory card is disclosed in figures 5 and 6 as "Empty Region."

With respect to independent claims 28 and 29, a system and method for storing memory card usage information on a memory card is disclosed in the abstract and title as a memory device, controller, and electronic device which allows games to be saved o the memory device.

Collecting information about usage of the memory card is disclosed in figures 7, 8A, and 8B, for example. "Usage of the memory card," is interpreted by examiner to mean the games played using the memory card, #10. The information collected are the games.

Recording the information about usage of the memory card in an area of the memory card is also disclosed in figures 7, 8A, and 8B, for example. As discussed in column 12, lines 37-38. a list of stored data is shown. The data being stored, or recorded, on the memory card 10 is discussed in column 12, line 49.

Accessing the information about usage of the memory card from the memory card is disclosed in column 12, lines 44-46, the particular game is selected, thereby accessing the information about the usage of the memory card.

Displaying the information about the usage of the memory card on a screen on the memory card is disclosed in column 12, lines 37-38, which displays a menu of the information about the usage of the memory card on an LCD screen.

Examiner notes that claim 28 is a method claim that is anticipated by the instantly cited prior art of record. Accordingly, apparatus to perform the anticipated method is also anticipated, as discussed supra with respect to claims 1 and 16.

With respect to independent claims 30 and 32, collecting information about usage of the memory card is disclosed in figures 7, 8A, and 8B, for example. "Usage of the memory card," is interpreted by examiner to mean the games played using the memory card, #10. The information collected are the games.

Recording the information about usage of the memory card in an area of the memory card is also disclosed in figures 7, 8A, and 8B, for example. As discussed in column 12, lines 37-38, a list of stored data is shown. The data being stored, or recorded, on the memory card 10 is discussed in column 12, line 49.

Accessing the information about usage of the memory card from the memory card is disclosed in column 12, lines 44-46, the particular game is selected, thereby accessing the information about the usage of the memory card.

The information about usage of the memory card comprising at least one of a measurement of how full the memory card is and the number of times data was corrected by the memory card is discussed in column 10, lines 64-67, as shown in figures 5A-E and 6A-C, for example, which shows how full the memory card is. As applicants have not claimed whether this is a quantitative or qualitative measurement,

examiner has interpreted the display of the figures to be a qualitative measurement, as the user can see about how much of the memory is full. Examiner notes that the instant claim language of "at least one of," merely requires one of the two possible limitations to be anticipated to anticipate the entire limitation.

Examiner notes that claim 30 is a method claim that is anticipated by the instantly cited prior art of record. Accordingly, apparatus to perform the anticipated method (claim 32) is also anticipated, as discussed supra with respect to claims 1 and 16.

With respect to claims 31 and 33, the information about usage of the memory card comprising a measurement of how full the memory card is disclosed as discussed supra with respect to claims 30 and 32, respectively.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11, 20-22, 24-25, and 28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruce et al (cited supra).

With respect to claims 11, 24-25, and 28-29, Bruce et al disclose the claim limitations of the claim upon which the instant claims depend and/or include. Bruce et al additionally disclose the system firmware updating the total and incremental write counts every 1,000 writes, e.g., in column 10, lines 31-32.

The difference between Bruce et al and the instant claim is the explicit recitation of displaying of the real-time information (the counts of Bruce et al are "real-time," and in a host system or "on" the memory card) in a window on a screen. It is important to note that the system of Bruce et al may be considered a host system (re: claim 11) or a memory card system, with a display "on" the memory card (re: claims 24-25 and 28-29).

However, it is well known to those of ordinary skill in the art that a user may perform any of the functions that firmware can perform, and that to do so, the relevant information must be displayed for the user to see. The display being a screen or a window on a screen are known. Where the information is displayed is a mere matter of design choice. The examiner takes OFFICIAL NOTICE of this teaching.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention, having the teachings of Bruce et al before him/her, to display the real-time information of the write counts in order to allow a user to make the determinations made (wear-level every predetermined number of writes) by the firmware of Bruce et al, as made hackneyed in the state of the art.

With respect to claims 20-22, Bruce et al disclose the write counters counting the number of writes for wear-leveling.

The difference between Bruce et al and the respective claim limitations is that the writes are image files, music files, or formats.

However, it is very well known in the art that music files, image files, and formatting require writes. The examiner takes OFFICIAL NOTICE of this teaching.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, having the teachings of Bruce et al before him/her to count all writes to the memory for the purpose of wear-leveling to extend the life of the memory, as taught by Bruce et al.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al (cited supra) and Bruce et al (cited supra), each taken separately; in view of Bueno (US Patent # 5,532,689).

Shimizu et al and Bruce et al, each taken separately, disclose the subject matter of the claims upon which the instant claim depends.

Shimizu et al and Bruce et al, each taken separately disclose collecting information.

The difference between Shimizu et al and Bruce et al, each taken separately; and the instant claim is the information collected further comprising counting physical insertions of the memory card in the electronic device.

Bueno discloses counting the number of times a memory card is inserted into an electronic device in the abstract as an access count.

Accordingly, it would have been obvious to one of ordinary skill in the art having the teachings of Shimizu et al and Beuno before him/her, to utilize the access counting of Bueno in the system of Shimizu et al and Bruce et al, each taken separately, as the access counting allows fraud prevention, as discussed by Bueno in column 3, lines 20-25.

Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Himoto et al (cited supra) and Bruce et al (cited supra), each taken separately; in view of No (US Patent #6,587,140).

Himoto et al and Bruce et al, each taken separately, disclose the subject matter of the claims upon which the instant claim depends.

Himoto et al disclose providing a portable memory card in a digital video game system. Bruce et al disclose a portable memory card as discussed supra.

The difference between Himoto et al and Bruce et al, each taken separately; and the instant claim is the memory card being in a digital camera.

No discloses a memory card for use in a digital camera.

Accordingly, it would have been obvious to one of ordinary skill in the art having the teachings of Himoto et al and Bruce et al, each taken separately; and No before him/her, to utilize the portable memory card of Himoto et al and Bruce et al, each taken separately; in the camera of No as it allows for a completely portable, untethered camera design, as disclosed by No in column 1, lines 40-43.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian P. Chace whose telephone number is 571.272.4190. The examiner can normally be reached on MAXI FLEX.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on 571.272.4201. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2187

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'C. P. Chace', with a long horizontal flourish extending to the right.

Christian P. Chace
Examiner
Art Unit 2187